(Loamy Bottomland)

Description: Deep, well drained or moderately well drained soils with

loamy surfaces and loamy or clayey subsoils. Soils in this subgroup occur on floodplains and terraces which receive extra moisture from adjoining areas. (Soils with a clayey subsoil have at least 14 inches of loamy material above the

subsoil.)

Limitations: Soils in this subgroup can have slight wetness and slight

salinity or alkalinity.

Soils: Alluvial land

Bridgeport silt loam Broken alluvial land Caruso silt loam Cozad silt loam

Dale silt loam, clay loam

Detroit silt loam, silty clay loam

Eltree silt loam Hobbs silt loam

Hord silt loam, silty clay loam

Humbarger loam, silt loam

Leshara clay loam

McCook silt loam, fine sandy loam

New Cambria silty clay, silty clay loam Roxbury silt loam, soils, complex

Tobin silt loam

LGA: 73 SUITABILITY GROUP: A-1

SPECIES		CIES ILITY 1 / IRRIGATED	SPECIES PRODUC- TIVITY 2_/	GRAZING PREFERENCE 3_/	STAND ESTABLISH- HENT 4_/		ITILIZ EDS 5 p		Ph RANGE 6_/	DROUGHT TOLERANCE
HARM SEASON BRASSES BIG BLUESTEM KAN PANNEE	6 6 5N	8 8 7N	5 6 6	7 7 7	2-3 2-3	0-1	0	0	6.0-7.5	FAIR-GOOD FAIR-GOOD
EASTERN GAMAGRASS ENDIANGRASS CHEYENNE	3 6 6	6 8	10	6 7 7	2-3 2-4 1-3 1-3	0-3 0-1	0 0-5	0-1 0	5.5-7.5 5.5-7.5	FAIR-GOOD FAIR FAIR FAIR
NEBRASKA 54 SIDEOATS GRAMA EL RENO	5Ñ 7 7	8N 8 8	5 6 3 4 5	7 5 5 5	1-3 1-3 1-3	0-1	0	0	6.0-7.5	FAIR GOOD GOOD
SWITCHGRASS BLACKWELL COOL SEASON GRASSES	6	8 8	5 6	5	1-2	0-2	0	0	5.5-8.0	600D 600D
CREEPING FOXTAIL GARRISON	2N 2N	5N 5N	6 7	7	1-2 1-2	1-2	1-2	0-2	5.5-7.0	POOR POOR
MEADON BROMEGRASS REGAR DRCHARDGRASS	5 5 0	7 7 7	6 7 6	6 6 7	1-2 1-2 1-2	1-2	1-2	0-5 0-5	5.5-7.0 5.5-7.0	FAIR FAIR POOR
LATAR REED CANARYGRASS IOREED	0	7 6 6	7 6 7 7 8	7 6 6 6 7	1-2 1-2 1-2	1-2	1-2	0-5	5.5-7.0	POOR POOR POOR
RISE SMOOTH BROMEGRASS ACHENBACH LINCOLN	0 5 5	5 8 8 7	8 6 7 7	6 7 7 7	1-2 1 1	1-2	1-2	0-5	5.5-7.0	POOR FAIR FAIR FAIR
SOUTHLAND TALL FESCUE KENTUCKY 31	5 3 3	8 8 8	7 6 7	7 4 4	i i 1	1-2	1-2	0-2	6.2-7.0	FAIR POOR POOR
WHEATGRASS INTERNEDIATE SLATE	5 5	7	5 6	4	1-2 1-2	1-2	1-2	0-1	6.0-7.5	FAIR FAIR
TALL JOSE NESTERN	5 5 6 6	8 8 8	5 6 4	4 4 5	1-2 1-2 1-3	1-2 0-1	1-2 0-1	0-1 0-1	7.0-8.5 6.5-8.5	FAIR FAIR 600D
BARTON LEGUMES	6	8	5	5	1-3					6000
ALFALFA (STANDARD) (RHIZOMATOUS)	6 5	9 8	10 7	8	1 1-2	0-1 0-1	1-3 1-3	1-3 1-2	6.5-8.0 6.5-8.0	600D

¹_/ ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=SOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

^{2 /} SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS BROUP.

³_/BRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

⁴_/ STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

⁵_/ FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K: 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALMAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

⁶_/ Ph ARMSE - LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

(Loamy)

Description: Deep, well drained or moderately well drained soils with

loamy surfaces and loamy or clayey subsoils. Soils in this subgroup occur on uplands and receive little or no extra moisture from adjoining areas. (Soils with a clayey subsoil

have at least 14 inches of loamy material above the

subsoil.)

Limitations: Few or no limitations. Soils in this subgroup can have

slight wetness and slight salinity or alkalinity.

Carlson silt loam, complex Soils:

Geary silt loam, silty clay loam

Harney silt loam, silty clay loam, complex Holdrege loam, silt loam, silty clay loam, fine sandy loam

Kenesaw silt loam

Mento silt loam, silty clay loam, soils Nuckolls silt loam, silty clay loam Richfield silt loam, silty clay loam

Satanta loam

Uly loam, silt loam, complex Ulysses silt loam, complex

LRA: 73 SUITABILITY SROUP: A-2

-5-

SPECIES		CIES HLITY 1 / IRRIGATED	SPECIES PRODUC- TIVITY 2_/	GRAZING PREFERENCE 3_/	STAND ESTABLISH MENT 4_/		TILIZ EDS 3		Ph RANGE 6_/	DROUGHT TOLERANCE
WARM SEASON GRASSES BIG BLUESTEM KAN	5	8	5	7	2-3 2-3	0-1	0	0	6.0-7.5	FAIR-GOOD FAIR-GOOD
PANNEE EASTERN GAMAGRASS INDIANGRASS CHEYENNE	4N 0 5 5	7N 7 8 8	6 10 5 6	7 8 7 7	2-3 2-4 1-3 1-3	0-3 0-1	0-2	0-1 0	5.5-7.5 5.5-7.5	FAIR-GOOD FAIR FAIR FAIR
NEBRASKA 54 SIDEDATS GRAMA EL REND	5N 7 7	8N 7 7	5 6 3 4 5	7 5 5 5	1-3 1-3 1-3	0-i	0	0	6.0-7.5	FAIR 6000 6000
SHITCHGIASS BLACKWELL	6	8	5	5 5	1-2	0-2	0	0	5.5-8.0	600D
DOOL SEASON GRASSES MEADON BRONEGRASS	4	7	6	6	1-2	1-2	1-2	0-5	5.5-7.0	FAIR
REGAR ORCHARDGRASS	4	7	7 6 7	6	1-2 1-2	1-2	1-2	02	5.5-7.0	FAIR POOR
LATAR	Ŏ	7		ż	1-2	• •				POOR
REED CANARYGRASS IOREED	Ó	5 5 5	7	6 6	1-2 1-2	1-5	1-2	0-2	5.5-7.0	POOR POOR
RISE	0	5	8 6 7	ě	1-2					POOR
SMOOTH BROMEGRASS	3	7	ē	Ž	1	1-2	1-2	0-5	5.5-7.0	FAIR
ACHENBACH LINCOLN	3	7	7	7	1					FAIR FAIR
SOUTHLAND	3 3	7	7	7	i					FAIR
TALL FESCUE	Ō	7	Ġ		į	1-2	1-2	0-5	6.2-7.0	POOR
KENTUCKY 31 WHEATGRASS	0	7	7	4						POOR
INTERMEDIATE	4.	7	5	4	1-2	1-2	1-2	0-1	6.0-7.5	FAIR
SLATE	4	Ž	5 5 6	4	1-5					FAIR
TALL JOSE	5 5	7	Ş	*	1-2 1-2	1-5	1-2	0-1	7.0 -8 .5	FAIR FAIR
MESTERN	6	á	Ä	5	1-3	0-1	0-1	0-1	6.5-8.5	600D
BARTON	Ğ	8	5	5	1-3	•	• •			6000
LEGUMES										
ALFALFA (STANDARD)	3	ð	10	8		0-1	1-3	1-3	6.5-8.0	6000
(RHIZOMATOUS)	5	7	7	8	1-2	0-1	1-3	1-5	6.5 -8 .0	6000

- 1_/ RDAPTABILITY O=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS: S=ADAPTED IN SOUTHERN COUNTIES ONLY.
- 2 / SPECIES PRODUCTIVITY A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD BIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS BROUP.
- 3_/GRAZING PREFERENCE SCALE 1 8, (1=POOR, 8=EXCELLENT).
- 4 / STAND ESTABLISHMENT NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.
- 5 / FERTILIZER NEEDS O-NONE; 1=10-50 POUNDS OF N. 20-40 POUNDS OF P. 20-40 POUNDS OF K; 2=50-100 POUNDS OF N. 40-60 POUNDS OF P. 40-70 POUNDS OF K; 3=100+ POUNDS OF N. 60+ POUNDS OF P. 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALMAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.
- 6 / Ph RANGE LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

(Coarse Loamy Bottomlands

Description:

Deep, well drained or moderately well drained soils with loamy surfaces and subsoils. Soils in this subgroup have moderately coarse-textured surfaces, occur on lowlands, and

may receive extra moisture from adjoining areas.

Limitations: Lack of moisture and soil blowing may be hazards during

establishment of pasture.

Soils: Boel fine sandy loam

Canadian fine sandy loam Carr fine sandy loam

Las Animas sandy loam, complex

Munjor sandy loam, fine sandy loam, complex

LRA: 73
SUITABILITY GROUP: A-3

SPECIES		CIES ILITY 1 / IRRIGATED	SPECIES PRODUC- TIVITY 2_/	GRAZING PREFERENCE 3_/	STAND ESTABLISH- MENT 4_/	NE NE	RTILII EDS 5 P	ER 5_/ K	Ph RANGE 6_/	DROUGHT TOLERANCE
WARM SERSON GRASSES BIG BLUESTEM KAN	6 6	8	5	7 7 2	2-3 2-3	0-1	0	0	6.0-7.5	FAIR-GOOD FAIR-GOOD
PANNEE EASTERN GAMAGRASS INDIANGRASS CHEYENNE	5N 3 6 6	7N 9 8 8	6 10 5 6	7 7 7	2-3 2-4 1-3 1-3	0-3 0-1	0-2	0-i 0	5.5-7.5 5.5-7.5	FAIR-GOOD FAIR FAIR FAIR
Nebraska 54 Sand Bluesten Garden Woodward	5N 6 6N 6	8N 8 8N 8	6 5 5 6	7 7 7 7	1-3 1-3 1-3 1-3	0-1	0-1	0-1	5.5-7.5	FAIR FAIR-GOOD FAIR-GOOD FAIR-GOOD
SIDEDATS GRAMA EL RENO SWITCHGRASS	7 7 6	8	3 4 5	5 5 5	1-3 1-3 1-2	0-i 0-2	0	0	6.0-7.5 5.5-8.0	600D 600D 600D
BLACKWELL COOL SEASON GRASSES	6	8	6	5	1-2		·	·		600D
CREEPING FOXTAIL GARRISON MEADOW BROMEGRASS REGAR	2 5 5	5 7 7	6 7 6 7	7 7 6 6	1-2 1-2 1-2 1-2	1-2	1-2	0-5 0-5	5.5-7.0 5.5-7.0	POOR POOR FAIR FAIR
Orchardgrass Latar Reed Canarygrass	0	7 7 6	6 7 7	7 7 6	1-2 1-2 1-2	1-2	1-2	0-5 0-5	5.5-7.0 5.5-7.0	POOR POOR POOR
IOREED RISE SMOOTH BRONEGRASS	0 0 5	6 5 8	8 8 6	6 6 7	1-2 1-2 1	- 2	2		5.5-7.0	POOR POOR FAIR
ACHENBACH EINCOLN SOUTHLAND TALL FESCUE	5 4 5 3	8 7 8 8	7 7 7 6	7 7 7	1 1	1-2	49	۸9	6.2-7.0	FAIR FAIR FAIR POOR
KENTUCKY 31 WHEATGRASS INTERMEDIATE	3 5	8 7	7 5		i 1-2	1-2		0-1	6.0-7.5	POOR FAIR
SLATE TALL JUSE	5 6 6	7 8 8	6 5 6	4	1-5 1-5 1-5	1-2	1-2	0-1	7.0-8.5	FAIR FAIR FAIR
WESTERN BARTON LEGUMES	6 6	8	5	5 5	1-3 1-3	0-1	0-1	0-1	6.5-8.5	600D 600D
ALFALFA (STANDARD) (RHIZOMATOUS)	5 4	9 8	10 7	8	1-5	0-1 0-1	-3 -3	1-3 1-2	6.5-8.0 6.5-8.0	600D 600D

- 1_/ ADAPTABILITY O=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.
- 2_/ SPECIES PRODUCTIVITY A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD BIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.
- 3 / GRAZING PREFERENCE SCALE 1 8, (1=POOR, 8=EXCELLENT).
- 4_/ STAND ESTABLISHMENT NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.
- 5_/ FERTILIZER NEEDS 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALMAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.
- 6_/ Ph RANGE LOW AND HIGH PH RECOMMENDED FOR THE SPECIES.

(Sands)

Description: Deep, well drained to excessively drained soils with sandy

surfaces and subsoils. Available water holding capacity in

the 40-inch root zone is less than four inches.

Limitations: Choice of plants is limited by droughtiness and low

fertility. Lack of moisture and soil blowing may be a hazard during establishment of recommended species.

Soils: Dorrance gravelly sandy loam, sandy loam

Pratt loamy fine sand Simeon loamy sand Tivoli fine sand Valentine fine sand

LRA: 73 SUITABILITY GROUP: A-4

SPECIES		CIES VILITY 1 / IRRIGATED	SPECIES PRODUC- TIVITY 2_/	GRAZING PREFERENCE 3_/	STAND ESTABLISH- MENT 4_/	FE - Ni	RTILI: EEDS :	ZER 5_/ K	Ph RANGE 6_/	DROUGHT TOLERANCE
WARM SEASON GRASSES BIG BLUESTEM KAN PANNEE	5 5 4N	7 7 6N	5 6 6	7 7 7	2-3 2-3 2-3	0-1	0	0	6.0-7.5	FAIR-GOOD FAIR-GOOD FAIR-GOOD
ERSTERN SAMAGRASS INDIANGRASS CHEYENNE NEBRASKA 54	2 5 5 5 <u>N</u>	8 7 7 7N	10 5 6 6	6 7 7 7	2-4 1-3 1-3 1-3	0-3 0-1	0 0–5	0-1 0	5.5-7.5 5.5-7.5	FAIR FAIR FAIR FAIR
PRATRIE SANDREED GOSHEN SAND BLUESTEN GARDEN WOODWARD	6 6 6 6N 6	8 8 8 8	5 6 5 5	3 7 7	2-3 2-3 1-3 1-3	0-1 0-1	0-1 0-1	0-1 0-1	5.5-7.0 5.5-7.5	600D 600D FAIR-600D FAIR-600D
SIDEDATS GRAMA EL RENO SWITCHGRASS BLACKWELL	6 6 6	8 7 7 7	566565563456	7 5 5 5 5	1-3 1-3 1-3 1-2 1-2	0-1 0-2	0	0	6.0-7.5 5.5-8.0	FAIR-600D 600D 600D 600D
COOL SEASON GRASSES CREEPING FOXTAIL GARRISON	0	5 5	6	7 7	1-2 1-2	1-2	1-2	0-5	5.5-7.0	6000 POOR POOR
MEADOM BROMEGRASS REGAR DRCHARDGRASS LATAR	0 0 0	7 7 7 7	6 7 6 7	6 6 7 7	1-2 1-2 1-2 1-2	1-2	1-2	0-5 0-5		FAIR FAIR POOR POOR
SMOOTH BROMEGRASS ACHENBACH LINCOLN SOUTHLAND	3 3 3	7 7 7 7	6 7 7 7	7 7 7 7	1 1	1-2		0-5		FAIR FAIR FAIR FAIR
TALL FESCUE KENTUCKY 31 WHEATGRASS INTERMEDIATE SLATE	0	7 7 7	6 7 5 6	•	1 1 1-2	1-2			6.2-7.0 6.0-7.5	POOR POOR FAIR
LEGUMES ALFALFA (STANDARD) (RHIZOMATOUS)	0	8 7	10 7	4 8 6	1-2 1 1-2	0-1 0-1	1-3 1-3	1-3 1-2	6.5-8.0 6.5-8.0	FAIR 6000 6000

¹_/ PDAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR. 7-9=600D; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

²_/ SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

³_/GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

⁴_/ STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

⁵_/ FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALMAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

^{5 /} Ph RANGE - LOW AND HIGH PH RECOMMENDED FOR THE SPECIES.

(Coarse Loamy Upland)

Deep, well drained soils with loamy surfaces and subsoils. Soils in this subgroup have moderately coarse-textured Description:

surfaces and occur on uplands.

Lack of moisture and soil blowing may be hazards during establishment of recommended species. Limitations:

Soils: Anselmo sandy loam, fine sandy loam

Dalhart complex

Ortello fine sandy loam, complex

SPECIES WARM SEASON GRASSES		CIES ILITY 1 / IRRIGATED	SPECIES PRODUC- TIVITY 2_/	GRAZING PREFERENCE 3_/	STAND ESTABLISH- MENT 4_/		RTILIZ EDS :		Ph RANGE 6_/	DROUGHT TOLERANCE
BIG BLUESTEN	5	8	5	7	2-3	0-1	0	0.	6.0-7.5	FAIR-GOOD
KAN	5	ă	6	ż	2-3	0-1	v	V.	6.0-7.3	FAIR-GOOD
EASTERN GAMAGRASS	0	7	10	à	2-4	0-3	0-5	0-1	5.5-7.5	FAIR
INDIANGRASS	5	8	5	7	Ĩ-3	0-1	0	0	5.5-7.5	FAIR
CHEYENNE	.5	_8	6	7	1-3	-				FAIR
NEBRASKA 54	4 <u>N</u>	6N	6	7	1-3					FAIR
SAND. BLUESTEM GARDEN	5 5N	8	5	7	1-3	0-1	0-1	0-1	5.5-7.5	FAIR-GOOD
HOODHARD		8N 8	5665563456	7	1-3					FAIR-GOOD
SIDEDATS GRAMA	7	7	9	7 5 5 5	1-3	L .				FAIR-GOOD
EL. REND	ż	7	Ä	, i	1-3 1-3	D-1	0	0	6.0-7.5	600D
SHITCHERASS	Ġ	á	5	Š	1-2	0-2	0	0	5.5-8.0	600D
BLACKWELL	Ğ	ă	Š	5	1-2	V-E	V	V	J. J-0. V	6000
COOL SEASON GRASSES MEADON BROMEGRASS REGAR ORCHARDGRASS LATAR	4 0 0	7 7 7 7	6 7 6 7	6 6 7 7	1-2 1-2 1-2 1-2	1-5	1-2 1-2	0-5	5.5-7.0 5.5-7.0	FAIR FAIR POOR POOR
REED CANARYGRASS	ŏ	Ś	7	Ŕ	1-2	1-2	1-2	0-2	5.5-7.0	POOR
IOREED	Ŏ	5 5	ė.	š	1-2	1-5	15	VE	3.3-1.0	POOR
RISE	0	5	8	6 6 6	1-2					POOR
SMOOTH BROMEGRASS	3 3 3 3	8	6	7	1	1-2	1-2	0~2	5.5-7.0	FAIR
ACHENBACH	3	ā	7	7	7	Τ -		•		FAIR
LINCOLN	3	8	7	7						FAIR
SOUTHLAND		ē	7	7	1					FAIR
TALL FESCUE KENTUCKY 31	0	ě	6	•	ļ	1-5	1-5	0-5	6.2-7.0	POOR
WHEATGRASS	U	8	7	•	1	•				POOR
INTERMEDIATE	4	7				4 .	4.6			
SLATE	•	7	5 6	7	1-2 1-2	1-2	1-2	0-1	6.0-7.5	FAIR
TALL	4 5 5 6	7	5	T T	1-2	1-2	1-2	0-1	7.0-8.5	FAIR
JOSE	Š	Ż	ĕ	Ă.	1-2	1	I-E	0-1	7.0-0.3	FAIR FAIR
WESTERN		à	4	Ś	i-3	0-1	0-1	0-1	6.5-6.5	6000
BARTON	6	8	5	5 5	1-3	1 -	-			600D
I COIMCO										3
LEGUMES ALFALFA (STANDARD)	7		4.6			٠.				
(RHIZOMATOUS)	3 2	8 7	10 7	8	1 1~2	0-1 0-1	1-3 1-3	1-3 1-2	6.5-8.0 6.5-8.0	600D 600D

¹_/ ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

²_/ SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

³_/GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

^{4 /} STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT,

⁵_/ FERTILIZER NEEDS - 0=NOME; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

⁶_/ Pn RANGE - LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

(Deep Limy

Description:

Deep and moderately deep, well drained or somewhat excessively drained soils with loamy surfaces and subsoils

that contain lime throughout the profile.

Limitations: Soils in this subgroup are slightly affected by limy

surfaces and subsoils.

Armo loam, silt loam, complex Soils:

1

Bippus clay loam Coly silt loam Kim silty clay loam

Mansic clay loam, soils, complex

Mansker clay loam, complex

Ost silt loam

Penden loam, clay loam, silty clay loam, complex

Wakeen silt loam, silty clay loam, complex

LRA: 73 SUITABILITY GROUP: A-7

SPECIES		CIES ILITY 1 / IRRIGATED	SPECIES PRODUC- TIVITY 2:/	GRAZING PREFERENCE 3_/	STANO ESTABLISH- NENT 4_/		TILIZ EDS 5		Ph RANGE 6_/	DROUGHT TOLERANCE
WARM SEASON GRASSES BIG BLUESTEN	5	8	5	7	2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
icam	5	8	5 5 5 6 3 4	7	2-3	V-1	•	•		FAIR-GOOD FAIR-GOOD
PANNEE INDIANGRASS	4N	7N 7	5	7	2-3 1-3	0-1	0	Q	5.5-7.5	FAIR
CHEYENNE	7	7	š	7	i-3	-	•	•		FAIR
NEBRASKA 54	4N	71	6	7	1-3	ا ما				FAIR
SIDEDATS GRAMA EL RENO	7	7	3	5 5 5	1-3 1-3	0-1	0	0	6.0-7.5	6000 6000
SWITCHGRASS	Ś	7	3	5	1-2	0-2	0	0	5.5-8.0	6000
BLACKMELL	5	Ż	5 6	5	1-2	10 -		•		6000
COOL SEASON GRASSES										
MEADON BROMEGRASS	3	6	6	6	1-2	1-2	1-2	0-5	5.5-7.0	FAIR
REGAR	3	6	7	6	1-2					FAIR
DROHARDGRASS	0	Ę	6 7 6 7	7	1-2 1-2	1-5	1-2	0-5	5.5-7.0	POOR POOR
LATAR SMOOTH BROMEGRASS	0	6 6 6	Ę	7	1	1-2	1-2	^- 2	5.5-7.0	FAIR
ACHENBACH	2 2 2 3	Ž	7	Ź	i	1-5	1-5	V-E	3.3-1.0	FAIR
: INCOLN	5	6	'n	ż	i					FAIR
SOUTHLAND	ž	ĕ	ż	Ż	i					FAIR
TALL FESCUE	3	5	Š	À	ĭ	1-2	1-2	0-2	6.2-7.0	POOR
KENTUCKY 31	ž	5	7	Á	ī					POOR
WHEATSRASS						1				
INTERMEDIATE	3	6	5	4	1-2	1-5	1-2	0-1	6.0-7.5	FAIR
SLATE	3 5 5 6	6	6 5 6 4	•	i−5					FAIR
TALL	5	7	5	•	1-2	1-5	1-2	0-1	7.0 -8 .5	FAIR
JOSE	2	7	6	•	1-2					FAIR
WESTERN	þ	8	5	5	1-3	0-1	0-1	0-1	6.5-8.5	600D
BARTON	0	8	3	3	1-3					0 000
LEGUMES										
ALFALFA (STANDARD)	0	7	10	8	1	0-1	1-3	1-3	6.5-8.0	6000
(RhIZOMATOUS)	Ö	Ġ	7	8	1-2	0-1	1-3	1-5	6.5-6.0	G00D

- 1 / ADAPTABILITY 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.
- 2_/ SPECIES PRODUCTIVITY A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.
- 3_/GAAZING PREFERENCE SCALE 1 8, (1=POOR, 8=EXCELLENT).
- 4 / STAND ESTABLISHMENT NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.
- 5_/ FERTILIZER NEEDS 0=NONE; 1=10-50 POLINDS OF N, 20-40 POLINDS OF P, 20-40 POLINDS OF K; 2=50-100
 POLINDS OF N, 40-60 POLINDS OF P, 40-70 POLINDS OF K; 3=100+ POLINDS OF N, 60+ POLINDS
 OF P, 70+ POLINDS OF K. THE FIRST CATEGORY IS HIGH IS NEEDED TO MAINTAIN A
 HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A
 FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALMRYS BE USED
 ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.
- 6_/ Ph RANGE LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

(Sandy Bottomland)

Description: Deep, well drained or excessively drained soils with sandy

surfaces and subsoils. Soils in this subgroup have sandy surfaces and occur on bottomlands and receive extra water

from upland drainage.

Limitations:

Choice of plants is limited by droughtiness and low fertility. Soil blowing may be extremely hazardous during

establishment and early growth.

Soils: Inavale fine sand, loamy sand, loamy fine sand

Lincoln soils

LRA: 73 SUITABILITY SROUP: A-9

SPECIES		CIES ILITY 1 / IRRIGATED	SPECIES PRODUC- TIVITY 2_/	GRAZING PREFERENCE 3_/	STAND ESTABLISH- MENT 4_/	FEI NE	RTILI: EDS :		Ph RANGE 6_/	DROUGHT TOLERANCE
MARM SERSON GRASSES BIG BLUESTEN KAN PANNEE	5 5 48	7 7 6n	5 6 6	7 7 7	2-3 2-3 2-3	0-1	0	0	6.0-7.5	FAIR-600D FAIR-600D FAIR-600D
ERSTERN GAMAGAASS INDIANGRASS CHEYENNE NEBRASKA 54	2 5 5 4N	8 7 7 7 <u>N</u>	10 5 6	8 7 7 7	2-4 1-3 1-3 1-3	0-3 0-1	0-2	0-1 0	5.5-7.5 5.5-7.5	FAIR FAIR FAIR FAIR
PRAIRIE SANDREED GOSHEN SAND BLUESTEM BARDEN	6 6 6 6N	8 8 8 8N	566565565	3 3 7 7	2-3 2-3 1-3 1-3	0-1 0-1	0-1 0-1	0-1 0-1	5.5-7.0 5.5-7.5	6000 6000 FAIR-6000 FAIR-6000
WDODWARD SWITCHGRASS BLACKWELL	6 6	8 7 7	6 5 6	7 5 5	1-3 1-2 1-2	0-2	0	0	5 . 5-8. 0	FAIR-GOOD 6000 6000
COOL SEASON GRASSES CREEPING FOXTAIL GARRISON MEADOW BROMEGRASS	0	5 5 7	6 7 6 7	7 7 6	1-2 1-2 1-2	1-2 1-2	1-2	0-5 0-5	5.5-7.0 5.5-7.0	POOR POOR FAIR
regar Drchardgrass Latar Reed Caaarygrass	0	7 7 7 5	6 7	6 7 7	1-2 1-2 1-2 1-2	1-2	1-2	0-5	5.5-7.0 5.5-7.0	FAIR POOR POOR POOR
IOREED RISE SMOOTH BROMEGRASS ACHENBACH	0 0 3 3	5 4 7 7	7 8 8 6 7	6 6 7 7	1-2 1-2 1	1-2	1-2			POOR POOR FAIR
LINCOLN SOUTHLAND TALL FESCUE KENTUCKY 31	3 3 3 0 0	7 7 7 7	7 7 6 7	7 7 4	i 1 1	1-2	1-2	0-5	6.2-7.0	FAIR FAIR FAIR POOR POOR
MEATERASS INTERMEDIATE SLATE WESTERN	0 0 5	7 7 7	5 6 4	4 4 5	1-2 1-2 1-3	1-2 0-1	1-2 0-1	0-1 0-1	6.0-7.5 6.5 -8 .5	FAIR FAIR 6000
BARTON LEGURES ALFOLFA (STANDARD)	5 0	7 B	5 10	5	1-3 1-3	b-1	1-3	1-3	6.5-8.0	6000
(RHIZOMATOUS)	Ŏ	ž	7	ě	-	6-i	1-3	1-2	6.5 -8 .0	600D 600D

¹_/ ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

²_/ SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD SIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

³_/GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

⁴_/ STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

⁵_/ FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALMAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

⁶_/ Ph RANGE - LOW AND HIGH PH RECOMMENDED FOR THE SPECIES.

(Wet Loamy)

Description:

Deep, somewhat poorly or poorly drained soils with loamy surfaces and loamy to clayey subsoils. Soils in this subgroup occur on floodplains and terraces which receive extra moisture from adjoining areas.

Seasonal wetness during a portion of the growing season. Limitations:

Soils: Alluvial land, wet

Lesho clay loam

Wann loam

LRG: 73 SUITABILITY GROUP: C-:

SPECIES		CIES ILITY 1 / IRRIGATED	SPECIES PRODUC- TIVITY 2_/	GRAZING PREFERENCE 3_/	STAND ESTABLISH- MENT 4_/		TILIZ EDS 5		Ph range 6_/	DROUGHT TOLERANCE
WAR* SEASON GRASSES 918 BLUESTEM KAW PAWNEE EASTERN SAMAGRASS INDIAMGRASS CHEYENNE	4 4 4N 7S 4	-	5 6 10 5	7 7 7 8 7	2-3 2-3 2-3 2-4 1-3 1-3	0-1 0-3 0-1	0 0-2 0	0 0-1	6.0-7.5 5.5-7.5 5.5-7.5	FAIR-GOOD FAIR-GOOD FAIR-GOOD FAIR FAIR FAIR
NEBRASKA 54 SHITCHGRASS BLACKHELL	4 4 7 7	-	6 5 6	7 5 5	1-3 1-2 1-2	0-2	0	0	5.5-8.0	FAIR GOOD GOOD
COOL SEASON GRASSES CREEPING FOXTAIL GARRISON DRCHARDGRASS LATAR REED CAMARYGRASS LOREED RISE TALL FESCUE KENTUCKY 31 IMERTERASS	7 7 5 5 7 7 7 4	-	5 7 6 7 7 8 8 6 7	7 7 7 7 6 6 6 4	1-2 1-2 1-2 1-2 1-2 1-2 1-2		1-2 1-2	0-5 0-5	5.5-7.0 5.5-7.0 5.5-7.0 6.2-7.0	POOR POOR POOR POOR POOR POOR POOR POOR
INTERMEDIATE SLATE SLATE TAL: JOSE WESTERN BARTON	6 8 8 8	•	5 6 5 6 4 5	4 4 4 5 5	1-2 1-2 1-2 1-2 1-3 1-3	1-2 1-2 0-1	1-2 1-2 0-1	0-1 0-1 0-1	6.0-7.5 7.0-8.5 6.5-8.5	FAIR FAIR FAIR FAIR 6000 6000

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- 3_/GRAZING PREFERENCE SCALE 1 8, (1=POOR, 8=EXCELLENT).
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- 6_/ Ph RANGE LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

(Clayey)

Description:

Deep and moderately deep, well drained to somewhat poorly drained soils with loamy or clayey surfaces and clayey subsoils. (If surface texture is loamy, it is less than

14 inches over dense clayey subsoil.)

Limitations: Slowly or very slowly permeable clayey subsoils.

Soils: Crete silt loam, silty clay loam

Spearville silty clay loam, complex

_RA: 73 SUITABILITY BROUP: F-4

SPECTES		CIES ILITY 1 / IRRIGATED	SPECIES PRODUC- TIVITY	GRAZING PREFERENCE	STAND ESTABLISH	NE	RTILII EDŞ :	5_/_	Ph RANGE	DROUGHT
3765163	DRILHNU	TANTOHIED	5_1	3_/	HENT 4_/	Ħ	P	K	6_/	TOLERANCE
WARM SEASON GRASSES BIG BLUESTEM KAN	4	7	5 6	7	2-3 2-3	0-1	0	0	6.0-7.5	FAIR-GOOD FAIR-GOOD
PAINEE INDJANGRASS CHEYENNE NEBRASKA 54	4N 3 3 3N	7N 7 7 7N	6 5 6	7 7 7	2-3 1-3 1-3 1-3	0-1	0	0	5.5-7.5	FAIR-GOOD FAIR FAIR
SIDEORTS GRAMA EL REND	6 6 5	77	3	5 5 5	1-3 1-3 1-3	0-1	0	0	6.0-7.5	FAIR 6000 6000
SWITCHGRASS BLACKWELL	5 5	7	5	5 5	1-2 1-2	9-0	0	0	5.5-8.0	8000 8000
COGL SEASON GRASSES MEADON BROMEBRASS REGAR	2	6	6	6	1-2	1-2	1-2	0-2	5.5-7.0	FAIR
SMOOTH BROMEGRASS ACHENBACH LINCOLN	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	6	6 7	7 7	1-2	1-2	1-2	0-2	5.5-7.0	FAIR FAIR FAIR
SOUTHLAND TALL FESCUE	5 5	6 7	7 6	7 4	1	1-2	1-2	0~2	6.2-7.0	FRIR FAIR POBR
KENTUCKY 31 M-EATERASS	0	7	1	4	1					POOR
inte rve diate Slate Tall	3	6 6 6	5 6 5	4	1-2 1-2 1-2	1-5	1-2		6.0-7.5 7.0-8.5	FAIR FAIR FAIR
JOSE WESTERN	š 5	6 7	6	5	1-2 1-3	1 1 1 1	0-1	• •	6.5-8.5	FAIR 6000
BARTDA	5	7	5	Š	1-3	~ -				600D

- 1 / RDAPTAEILITY 0-NOT ADAPTED, 1-3-PODR. 4-6-FAIR. 7-9-GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S-ADAPTED IN SOUTHERN COUNTIES ONLY.
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- 6 / Th RANGE LOW AND HIGH PH RECOMMENDED FOR THE SPECIES.

(Wet Sodic

Description:

Deep, somewhat poorly or poorly drained loamy soils with a high sodium absorption ratio. The subsoils range from sandy to clayey and contain a high water table during the winter

and/or spring months.

Choice of plants is limited by high sodium content and Limitations:

moderate salinity. Wetness during a portion of the growing

season is common.

Soils: Saltine silty clay loam

LAA: 73 SUITABILITY GROUP: G-3

-5-

SPECIES		CIES ILITY 1 / IRRIGATED	SPECIES PRODUC- TIVITY 2_/	GRAZING PREFERENCE 3_/	STAND ESTABLISH- MENT 4_/		ITILII EDS 5 P		Ph RANGE 6_/	DROUGHT TOLERANCE
MARM SEASON BARSSES ALKALI SACATON SALTALIK SWITCHBRASS BLACKWELL	7./ 7./ 6	0 0 0	4 5 5 6	2 5 5	2-3 2-3 1-2 1-2	0-1	0	0	6.5 -8 .0 5.5 -8 .0	6000 6000 6000
CGG: SEASON GRASSES W-EATGRASS TALL JOSE WESTERN BARTON	6 6 5 5	0 0 0	5 6 4 5	4 4 5 5	1-2 1-2 1-3 1-3	1-2 0-1	1-2 0-1	0-1 0-1	7.0-8.5 6.5-8.5	FAIR FAIR 6000 80 00

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- 6 / Ph RANGE LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.
- 7 / PRIOR SEEDING EFFORTS ON SALINE SOILS HAVE BEEN NEAR FAILURES.

(Not Suitable)

This group includes various textures and phases of soils and Description:

land types which occur on a wide range of slopes and

topography.

Limitations: Soils in this group are generally too shallow, erosive,

gravelly, stony, or rocky; too steep, droughty, wet, clayey, or saline and alkaline for good survival or growth of

pasture species.

Soils: Active dunes

> Bogue clay, complex Canlon soils, complex Corinth silty clay loam

Heizer complex Kipson complex

Ness clay Nibson silt loam, soils, complex

Potter soils Randall clay Rough broken land

Timken clay, complex